

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10566068
Filing Date	2006-01-26
First Named Inventor	Birch
Art Unit	
Examiner Name	Not yet assigned
Attorney Docket Number	101160-1P US

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/SY/	2	4599198		1986-07-08	Pfizer Inc.	
/SY/	3	4668769		1987-05-26	Dennis J. Hoover	
/SY/	4	4692522		1987-09-08	Merck & Co., Inc.	
/SY/	5	4720503		1988-01-19	Merck & Co., Inc.	
/SY/	6	4751231		1988-06-14	Merck & Co., Inc.	
/SY/	7	4786641		1988-11-22	Bayer Aktiengesellschaft	
/SY/	8	4794120		1988-12-27	Synthelabo	

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/SY/	9	5863903		1999-01-26	Novo Nordisk A/S	
/SY/	10	5998463		1999-12-07	Pfizer Inc.	

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/SY/	1	200740	DD	A	1983-06-08	Karl Gewald et. al.		<input checked="" type="checkbox"/>
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/SY/	5	0884050	EP	A1	1998-12-16	Novo Nordisk A/S		<input type="checkbox"/>
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/SY/	16	04179949	JP	A	1992-06-26	Fuji Photo Film CO., Ltd.	<input checked="" type="checkbox"/>
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/SY/	27	97/45425	WO	A1	1997-12-04	Fujisawa Pharmaceutical Co., Ltd.		<input type="checkbox"/>
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/SY/	38	01/32654	WO	A2	2001-05-10	Societe de Conseils de Recherches et D'App Sci	<input checked="" type="checkbox"/>
/SY/	39	01/52825	WO	A2	2001-07-26	Novartis AG	<input type="checkbox"/>
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/SY/	41	01/68092	WO	A2	2001-09-20	Pfizer Products Inc.	<input type="checkbox"/>
/SY/	42	01/68603	WO	A2	2001-09-20	Bristol-Myers Squibb Co.	<input type="checkbox"/>
/SY/	43	01/94300	WO	A1	2001-12-13	Aventis Pharma Deutschland GMBH	<input checked="" type="checkbox"/>
/SY/	44	01/96311	WO	A2	2001-12-20	Bristol-Myers Squibb Company	<input type="checkbox"/>
/SY/	45	01/96347	WO	A1	2001-12-20	Bristol-Myers Squibb Company	<input type="checkbox"/>
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/SY/	49	02/36583	WO	A1	2002-05-10	Shionogi & Co., Ltd.	<input checked="" type="checkbox"/>
/SY/	50	02/80844	WO	A2	2002-10-17	Genzyme Corporation	<input type="checkbox"/>

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**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
/SY/	1	CROCHET R.A., et al., J. Het. Chem., "Synthesis of Substituted Thieno[2,3-b] pyrroles," April 1974, 143-150, Vol. 11.	<input type="checkbox"/>
/SY/	2	HARTMAN G.D., et al., "The Synthesis of 5-Alkylaminomethylthieno[2,3-b]Pyrrole-5-Sulfonamides," Heterocycles, 1989, 1943-1949, Vol. 29(10).	<input type="checkbox"/>
/SY/	3	MCCORMACK J.G., et al., "Pharmacological Approaches to Inhibit Endogenous Glucose Production as a Means of Anti-diabetic Therapy," Curr. Pharmaceutical Design, 2001, 1451-1474, Vol. 7.	<input type="checkbox"/>
/SY/	4	JAKOBSEN P., et al., "Iminosugars: Potential Inhibitors of Liver Glycogen Phosphorylase.," Bioorganic Med. Chem., 2001, 733-744, Vol. 9.	<input type="checkbox"/>
/SY/	5	TREADWAY J.L., et al., "Glycogen phosphorlase inhibitors for treatment of type 2 diabetes mellitus," Exp. Opin. Invest. Drugs, 2001, 439-454, Vol. 10(3).	<input type="checkbox"/>
/SY/	6	RATH V.L. et al., "Activation of Human Liver Glycogen Phosphorylase by Alteration of the Secondary Structure and Packing of the Catalytic Core," Mol. Cell, July 2000, 139-148, Vol. 6.	<input type="checkbox"/>
/SY/	7	OIKONOMAKOS N.G., et al., "Allosteric inhibition of glycogen phosphorylase a by the potential antidiabetic drug 3-isopropyl 4-(2-chlorophenyl)-1,4-dihydro-1-ethyl-2-methyl-pyridine-3,5,6-tricarboxylate," Protein Sci., 1999, 1930-1945, Vol. 8.	<input type="checkbox"/>

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/SY/	8	VENKATARAMAN P., et al., "Prediction of Ligand-Receptor Binding Thermodynamics by Free Energy Force Field Three-Dimensional Quantitative Structure-Activity Relationship Analysis: Applications to a Set of Glucose Analogue Inhibitors of Glycogen Phosphorylase," J. Med. Chem., 1999, 2169-2179, Vol. 42.	<input type="checkbox"/>
/SY/	9	HOOVER D.J., et al., "Indole-2-carboxamide Inhibitors of Human Liver Glycogen Phosphorylase," J. Med. Chem., 1998, 2934-2938, Vol. 41.	<input type="checkbox"/>
/SY/	10	MARTIN W.H., et al., "Discovery of a human liver glycogen phosphorylase inhibitor that lowers blood glucose in vivo," PNAS, Feb. 1998, 1776-1781, Vol. 95.	<input type="checkbox"/>
/SY/	11	SOMAN G., et al., "The Nature of the Binding Site for Aromatic Compounds in Glycogen Phosphorylase b," Biochem. J., 1975, 369-371, Vol. 147.	<input type="checkbox"/>
/SY/	12	SOMAN G., et al. "Aromatic Compounds as Allosteric Inhibitors of Glycogen Phosphorylase b," Biochimica et Biophysica Acta, 1974, 359-362, Vol. 358.	<input type="checkbox"/>
/SY/	13	ROSAUER K.G., et al., "Novel 3,4-Dihydroquinolin-2(1H)-one Inhibitors of Human Glycogen Phosphorylase a," Bioorganic & Medicinal Chemistry Letters, 2003, 4385-4388, Vol. 13.	<input type="checkbox"/>
/SY/	14	TEAGUE J. et al., "Mobilisation of Tissue Glycogen Following Inhibition of Glycogen Phosphorylase in fa/fa Rat," Diabetes, 53, Supp. 2, 2004, A365, 1521-P.	<input type="checkbox"/>
/SY/	15	VERTIGAN H. et al., "Impact of cell glycogen content on modulation of hepatocyte glucose metabolism by pharmacological agents," Diabetologia, 2004, A214, 589, Vol. 47, Supp.1.	<input type="checkbox"/>
/SY/	16	FONT M. et al. "Indoles and pyridazino[4,5-b]indoles as nonnucleoside analog inhibitors of HIV-1 reverse transcriptase", European Journal Med Chem, 1995, 963-71, Vol. 30.	<input type="checkbox"/>
/SY/	17	LIN T. et al. "Effects of Protein Binding and Experimental Disease States on Brain Uptake of Benzodiazepines in Rats", J Pharmacology & Eptl Therapeutics, 1990, 45-50, Vol. 253(1).	<input type="checkbox"/>
/SY/	18	VARNAVAS A. et al. "Quinolone Derivatives: Synthesis and Binding Evaluation on Cholecystokinin Receptors", II Farmaco, 1996, 341-350, Vol. 51(5).	<input type="checkbox"/>



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/SY/	19	PARSONS W H. et al. "Cholecystokinin Antagonists. Synthesis and Biological Evaluation of 3-Substitued Benzolactams", J Med Chem, 1989, 1681-5, Vol. 32.	<input type="checkbox"/>
/SY/	20	FREEMAN S., et al., "Effect of Glucose on Rat and Human Liver Glycogen Phosphorylase Activity and Potency of a Glycogen Phosphorylase Inhibitor," Diabetes, 52, Supp., 2003, A340, 1470-P.	<input type="checkbox"/>
/SY/	21	TURNBULL A., et al., "Pharmacological Inhibition of Glycogen Phosphorylase (GP) Lowers Plasma Glucose in Rat Models of Type 2 Diabetes," Diabetes, 52, Supp., 2003, A343, 1485-P.	<input type="checkbox"/>
/SY/	22	BIRCH A., et al., "Novel Thienopyrrole Glycogen Phosphorylase Inhibitors: In Vitro SAR and Crystallographic Studies," Poster, Cambridge Med Chem Symposium, Sept 2003.	<input type="checkbox"/>
/SY/	23	HUDSON S., et al., "The effect of a glycogen phosphorylase inhibitor upon muscle fatigue in anaesthetised rats," J. Physiol., 2002, 52-53, Vol. 539.	<input type="checkbox"/>
/SY/	24	VERTIGAN H. et al., "Impact of cell glycogen content on modulation of hepatocyte glucose metabolism by pharmacological agents", EASD Munich, 2004.	<input type="checkbox"/>
/SY/	25	BARTLETT J. et al., "In Vitro and In Vivo Profile of Gpi688, a Novel, Potent Inhibitor of Glycogen Phosphorylase", ADA San Diego, 2005.	<input type="checkbox"/>
/SY/	26	BENNETT S N L. et al., "Novel Orally Active Amino-indan Inhibitors of Glycogen Phosphorylase", Cambridge Med Chem Conference, Sept 2005. Poster EOM.	<input type="checkbox"/>
/SY/	27	GREEN A R. et al., "The Glycogenic Action of Protein Targeting to Glycogen in Hepatocytes Involves Multiple Mechanisms Including Phosphorylase Inactivation and Glycogen Synthase Translocation", J Biol Chem, 2004, 46474-46482, Vol. 279(45).	<input type="checkbox"/>
/SY/	28	ROBERTS P A. et al., "The temporal relationship between glycogen phosphorylase and activation of the pyruvate dehydrogenase complex during adrenaline infusion in resting canine skeletal muscle", J Physiology, 2002, 297-304, Vol. 545(1).	<input type="checkbox"/>

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Examiner Signature	/Shawquia Young/	Date Considered	12/18/2007
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